

Product Name

产品名称

SMT-M25 One-Component Prefabricated Building Sealant

SMT-M25 单组份装配式建筑胶

Description

描述

SMT-M25 One-Component Prefabricated Building Sealant is a single-part neutral curing low-modulus sealant with Class 25 movement capability. It delivers excellent adhesion to most construction materials and plastics including concrete, stone, glass, aluminum, wood and polycarbonate (PC). Widely applicable for joint filling and sealing of internal & external walls in prefabricated buildings, urban comprehensive utility tunnels, balconies and indoor spaces.

This product is indicated for:

- Joint filling and sealing for internal & external walls of prefabricated buildings, urban comprehensive utility tunnels, home interior decoration and other similar scenarios
- Bonding of various construction substrates, including concrete, stone, glass, aluminum, wood, etc.
- Other bonding and sealing applications in the construction field suitable for this product

SMT-M25单组份装配式建筑胶是一种单组分中性固化低模量密封胶产品，位移能力为25级。该产品对混凝土、石材、玻璃、铝材、木材、聚碳酸酯(PC)等大多数建筑材料及塑料具有良好的粘接能力，可广泛应用于装配式建筑、城市综合管廊、阳台及室内等各种建筑内外墙接缝填缝密封等领域。

本品适用于：

- 装配式建筑内外墙、城市综合管廊及家居内装等填缝密封
- 各种建筑材料的粘接，如混凝土、石材、玻璃、铝材、木材等的粘接
- 建筑领域中其他适宜本产品的粘接和密封用途

Properties

产品特点

- Eco-friendly product: ultra-low VOC, non-toxic and odorless, no contamination or corrosion to substrates.
 - Superior flexibility: low-modulus formula reduces internal stress caused by joint movement, minimizing the risk of debonding and cracking and extending sealant service life. It maintains stable bonding and sealing performance under variable displacement of building joints.
 - Outstanding high and low temperature resistance: after full curing, it will not become brittle, hard or crack at -50°C, nor soften or degrade at 150°C, retaining stable strength and elasticity.
 - Excellent adhesion: reliably bonds most construction materials and plastics including concrete, stone, glass, aluminum, wood and polycarbonate (PC).
 - Class 25 movement capability: it maintains consistent performance against normal expansion, contraction and shear deformation of building joints to deliver effective bonding and sealing.
 - Excellent elasticity, weather resistance and fatigue resistance.
 - Good paintability: the cured surface can be overcoated with paint.
 - Easy workability: single-component design for convenient application. It offers stable extrudability between 5°C and 40°C, and can be directly applied via a caulking gun.
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- 环保产品：超低 VOC，无毒无味，对基材无污染、无腐蚀。
 - 柔韧性好：低模量，可减少接缝位移变化带来的内应力对密封胶耐久性的影响，减少脱胶开裂风险。能够在建筑接缝位移变化情况下保持良好的粘接密封性能。
 - 耐高低温性能卓越，固化后在-50°C不变脆、硬化或开裂，在 150°C不变软、降解，保持良好的强度和弹性。
 - 优异的粘接性：对混凝土、石材、玻璃、铝材、木材、聚碳酸酯(PC)等大多数建筑材料及塑料具有优异的粘接性；对大部分建筑材具有优良的粘接性。
 - 位移能力为 25 级，对于建筑接缝正常的伸缩及剪切变形，本产品都能保持性能不变，起到有效的密封和粘接作用。
 - 优异的弹性、耐候及耐疲劳。
 - 良好的涂饰性：表面具有可涂饰性。
 - 良好的操作性：单组分，操作方便，在 5°C~40°C范围内具有良好的挤出性，用胶枪挤出即可施工。

Applications

产品应用

Before application:

- Prior to application, compatibility tests between the sealant and contacting materials as well as adhesion tests on the substrates to be bonded shall be carried out.

Construction Method:

- All application surfaces must be clean, dry and free of contaminants.

- Fit the cartridge into a suitable caulking gun. Cut the nozzle according to joint width, then extrude sealant into the joint to ensure full contact between sealant and joint edges.
- Compact the sealant with a proper tool and scrape off excess material.

施工前:

- 施工前应进行密封胶与所接触材料的相容性试验和与待粘结基材的粘结性试验。

施工方法:

- 施工表面必须清洁、干燥、无污垢。
- 将胶管装在合适的胶枪上, 根据接缝宽度切割胶嘴, 将胶挤入接缝中, 确保胶与接缝的边完全接触。
- 用合适的工具压实密封胶, 并刮除多余的胶。

Storage

存储要求

This product is non-hazardous. Store in cool and dry place below 10-27°C. Shelf life: 12 months. Use as soon as possible.

本产品属于非危险品, 储存于温度在10-27°C的阴凉干燥处, 有效期为12个月, 建议尽早使用。

Note

注意事项

- Not suitable for areas with long-term service temperature exceeding 80°C.
 - Not intended for glass glazing applications.
 - Do not apply when substrate surface temperature is below 5°C or above 40°C.
 - Not recommended for substrates that bleed grease, plasticizers or solvents, such as surfaces of oil-impregnated wood.
 - Unsuitable for permanently submerged locations or permanently damp environments all year round.
 - Cannot be used for bonding polypropylene (PP), polyethylene (PE) and polytetrafluoroethylene (PTFE).
 - When bonding cement or concrete substrates, the substrates must be fully dried and cured for 7 days before application; otherwise, the bonding performance will be adversely affected.
 - The construction surface must be clean, dry and free of dirt and contaminants.
 - Use the product within its shelf life; expired product is prohibited from use.
 - Construction shall be carried out strictly in accordance with the procedure of adhesion compatibility test.
 - Avoid direct contact with skin and eyes; do not ingest.
 - Keep away from children. Store the product out of children's reach.
 - Trace chemical substances will be released during curing. Adequate ventilation must be maintained at the working site. The fully cured product is non-toxic to human bodies.
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- 不宜用于使用温度长期高于80℃的场所。
 - 不宜用于玻璃镶装用途。
 - 材料表面温度低于5℃或超过40℃时，不宜施工。
 - 不宜用于会渗出油脂、增塑剂或溶剂的材料，如浸油木材的表面。
 - 不宜用于连续浸水的地方或终年潮湿的地方。
 - 不宜用于聚丙烯(PP)、聚乙烯(PE)、聚四氟乙烯(PTFE)的粘接。
 - 粘接水泥、混凝土基材时必须待基材完全干燥并养护7天后方可施工，否则会影响粘接性能。
 - 施工表面必须保持清洁、干燥、无污垢。
 - 应在产品保质期内使用，过期产品不得使用。
 - 应严格按照粘结性试验的流程施工。
 - 避免皮肤和眼睛直接接触，请勿吞食。
 - 避免小孩接触。请放置于儿童接触不到的地方。
 - 产品在固化过程中会释放出微量化学物质，作业场所应保持充分的通风，固化后对人体无毒。

Shelf life & Instruction

使用寿命和说明

Shelf life: 12 months

保质期：12 个月

These instructions are only recommendations, which are based on our experience. We advise preliminary testing before use.

这些说明只是基于我们的经验的建议。我们建议在使用前进行初步测试。

Packaging Specification

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包装规格

This product is available in standard 300ml rigid cartridges, 24 pieces per carton, and 600ml foil sachets, 20 pieces per carton. Custom filling is available upon customer request.

本产品采用标准的300ML胶料胶瓶包装，24支/箱；600ML软支包装，20支/箱。也可根据客户要求灌装。

Technical Data Sheet (Condition: 23°C, 55%RH)

技术参数表 (条件: 23°C, 55%RH)

Test Items		Technical requirements	Typical Data	Test Method
Appearance		Smooth and uniform paste, free of bubbles, skinning and gel lumps	Smooth and uniform paste, free of bubbles, skinning and gel lumps	Visual inspection
Density, g/cm ³		1.35±0.03	1.35	GB/T 13477.2-2018
Sag Resistance	vertical, mm	≤3	0	GB/T 13477.6-2002
	horizontal	No deformation	No deformation	
Extrudability, g/5s		≥60 (Nozzle tip diameter: ϕ 3.2 mm, operating pressure: 0.4 MPa)	80	GB/T 14683-2017
Tack-free time, min		20-40	35	GB/T 14683-2017
Elastic Recovery Rate, %		≥70	87	GB/T 13477.17-2017
Tensile Modulus, MPa	23°C	≤0.4	0.3	GB/T 13477.8-2017
	-20°C	≤0.6	0.5	
Elongation Adhesion		No Failure	No Failure	GB/T 14683-2017
Elongation Adhesion after Immersion		No Failure	No Failure	GB/T 13477.11-2017
Adhesion after Cold Tensile-Hot Compression Cycling		No Failure	No Failure	GB/T 13477.13-2002
Mass Loss Rate, %		≤5	1	GB/T 13477.19-2017

检测项目		技术指标	典型数据	检测标准
外观		细腻、均匀膏状物, 不应有气泡、结皮或凝胶	细腻、均匀膏状物, 不应有气泡、结皮或凝胶	目测
密度, g/cm ³		1.35±0.03	1.35	GB/T 13477.2-2018
下垂度	垂直, mm	≤3	0	GB/T 13477.6-2002
	水平	无变形	无变形	
挤出性, g/5s		≥60 (尖嘴 ϕ 3.2mm, 压力 0.4MPa)	80	GB/T 14683-2017
表干时间, min		20-40	35	GB/T 14683-2017

弹性恢复率, %		≥70	87	GB/T 13477.17-2017
拉伸模量, MPa	23℃	≤0.4	0.3	GB/T 13477.8-2017
	-20℃	≤0.6	0.5	
定伸粘接性		无破坏	无破坏	GB/T 14683-2017
浸水后定伸粘接性		无破坏	无破坏	GB/T 13477.11-2017
冷拉-热压后粘接性		无破坏	无破坏	GB/T 13477.13-2002
质量损失率%		≤5	1	GB/T 13477.19-2017